



McHenry County Department of Health
Reportable Conditions Report
September 2020

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INTRODUCTION

The McHenry County Department of Health (MCDH) Communicable Disease (CD) program collects monthly report data on all Illinois Reportable Diseases as defined by the Illinois Department of Public Health (IDPH). This report summarizes the incident cases of all IDPH reportable conditions during the current year. The frequency of incident cases are reported for each month. Incident cases include both probable and confirmed cases (**note: 2020 data is provisional**). Summary statistics for each reportable condition are reported and include: annual year-to-date total, annual year-to-date rate, and year-to-date reference. The definition (and calculation) of these summary statistics can be found below. Reportable conditions are separated by disease category: arboviral infections, gastrointestinal illnesses, sexually transmitted infections, tick borne diseases, vaccine preventable diseases, and other diseases.

DEFINITION OF TERMS

Incident Case

Incident cases are all newly diagnosed cases in a given timeframe. The frequency of incident cases for each month for the current year are presented in the tables below.

Annual Year-to-Date Total

The annual year-to-date total (**YTD Total**) represents the frequency of new cases for the current year as of this point in time. It is calculated for each condition as the sum of the frequency of incident cases for all months that have elapsed for the current year. The annual year-to-date total for each disease category are also reported.

Annual Year-to-Date Rate

The annual year-to-date rate (**YTD Rate**) is reported for each condition (and disease category) as the annual year-to-date rate of disease per 100,000 population. It can be interpreted as the number of incident cases per 100,000 residents of McHenry County. It is calculated as the annual year-to-date total divided by the current population of McHenry County (based on the US Census Bureau, 2014-2018 ACS 5-year Estimates for McHenry County: 307,789 people) multiplied by 100,000; this is represented mathematically as:

$$\text{YTD Rate} = \frac{\text{YTD Total}}{307,789} * 100,000$$

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Year-to-Date Reference

Year-to-date reference (**YTD Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the current month based on historical data. When the annual year-to-date total is greater than the year-to-date reference (i.e. $\text{YTD Total} > \text{YTD Ref}$), this indicates that a condition is tracking higher than average (note: a condition that is tracking higher than average does not necessarily indicate the occurrence of an outbreak; the MCDH CD program uses this data in conjunction with other investigative methods to monitor the spread of illness in the county and identify outbreaks). The past 5-year year-to-date median was used for the calculation of reference values in all cases except where data was unavailable for the past 5 years (median calculated based on available years in these cases).

ARBOVIRAL INFECTIONS

Zero arboviral infections were reported in September. The annual year-to-date total of all arboviral infections is 0 cases. The annual year-to-date rate of all arboviral infections is 0 cases per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for the current year.

Table 1. Arboviral Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
California Encephalitis	0	0	0	0	0	0	0	0	0				0	0.0	0
Chikungunya Fever	0	0	0	0	0	0	0	0	0				0	0.0	0
Dengue Fever	0	0	0	0	0	0	0	0	0				0	0.0	0
St. Louis Encephalitis	0	0	0	0	0	0	0	0	0				0	0.0	0
West Nile: Neuroinvasive	0	0	0	0	0	0	0	0	0				0	0.0	1
West Nile: Non-neuroinvasive	0	0	0	0	0	0	0	0	0				0	0.0	0
Zika: Congenital	0	0	0	0	0	0	0	0	0				0	0.0	0
Zika: Non-congenital	0	0	0	0	0	0	0	0	0				0	0.0	0
Total	0	0	0	0	0	0	0	0	0				0	0.0	-

GASTROINTESTINAL ILLNESSES

Seven gastrointestinal illnesses were reported in September. This included 3 cases of campylobacteriosis, 3 cases of salmonellosis, and 1 case of shigellosis. The annual year-to-date total of all gastrointestinal illnesses is 65 cases. The annual year-to-date rate of all gastrointestinal illnesses is 21.1 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for the current year.

Table 2. Gastrointestinal Illnesses

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Campylo-bacteriosis	3	1	4	1	3	2	3	3	3				23	7.5	46
Cholera ¹	0	0	0	0	0	0	0	0	0				0	0.0	0
<i>Escherichia coli</i> Infections	1	1	2	0	1	1	0	1	0				7	2.3	9
<i>S. Paratyphi</i>	0	0	0	0	0	0	1	0	0				1	0.3	1
Salmonellosis	1	3	6	2	3	3	3	7	3				31	10.1	45
Shigellosis	0	1	0	0	0	0	0	0	1				2	0.6	4
Vibriosis ²	1	0	0	0	0	0	0	0	0				1	0.3	1
Total	6	6	12	3	7	6	7	11	7				65	21.1	-

¹Toxigenic *Vibrio cholerae* O1 or O139

²Other than toxigenic *Vibrio cholerae* O1 or O139

SEXUALLY TRANSMITTED INFECTIONS (STIs)

Thirty-six STIs were reported in September. This included 32 cases of chlamydia and 4 cases of gonorrhea. The annual year-to-date total of all STIs is 475 cases. The annual year-to-date rate of all STIs is 154.3 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for the current year (AIDS/HIV is also a reportable condition but is excluded from the table to protect patient privacy in line with guidelines from the Office of Health Protection; monthly syphilis data is updated quarterly, and unreported data may be missing for some months).

Table 3. Sexually Transmitted Infections (STIs)

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Chancroid	0	0	0	0	0	0	0	0	0				0	0.0	0
Chlamydia	55	54	45	33	29	52	53	56	32				409	132.9	563
Gonorrhea	6	10	5	2	3	10	12	4	4				56	18.2	65
Syphilis	1	2	1	0	2	0	2	2					10	3.2	10
Total	62	66	51	35	34	62	67	62	36				475	154.3	-

TICK BORNE DISEASES

Zero tick borne diseases were reported in September. The annual year-to-date total of all tick borne diseases is 10 cases. The annual year-to-date rate of all tick borne diseases is 3.2 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for the current year.

Table 4. Tick Borne Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Anaplasmosis	0	0	0	0	0	0	0	0	0				0	0.0	0
Babesiosis	0	0	0	0	0	0	0	0	0				0	0.0	0
Ehrlichiosis	0	0	0	0	0	0	0	0	0				0	0.0	0
Lyme Disease	1	0	1	0	3	2	3	0	0				10	3.2	23
Spotted Fever Rickettsioses	0	0	0	0	0	0	0	0	0				0	0.0	0
Typhus Murine	0	0	0	0	0	0	0	0	0				0	0.0	0
Total	1	0	1	0	3	2	3	0	0				10	3.2	-

VACCINE PREVENTABLE DISEASES

One vaccine preventable disease was reported in September. This included 1 case of Hepatitis B. The annual year-to-date total of all vaccine preventable diseases is 42 cases. The annual year-to-date rate of all vaccine preventable diseases is 13.6 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for the current year.

Table 5. Vaccine Preventable Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Chickenpox	0	1	1	1	0	1	0	0	0				4	1.3	14
Diphtheria	0	0	0	0	0	0	0	0	0				0	0.0	0
<i>Haemophilus influenzae</i> ¹	0	0	1	0	0	0	0	0	0				1	0.3	4
Hepatitis A	0	0	1	1	0	0	0	0	0				2	0.6	1
Hepatitis B	4	1	0	0	0	0	1	1	1				8	2.6	10
Influenza A, variant virus	0	0	0	0	0	0	0	0	0				0	0.0	0
Influenza with ICU admission	6	11	1	0	0	0	0	0	0				18	5.8	21
Influenza, death in ≤ 18 year olds	0	0	0	0	0	0	0	0	0				0	0.0	0
Measles	0	0	0	0	0	0	0	0	0				0	0.0	0
Mumps	0	0	0	0	0	0	0	0	0				0	0.0	4
<i>Neisseria meningitidis</i> ²	0	0	0	0	0	0	0	0	0				0	0.0	0
Pertussis	3	4	2	0	0	0	0	0	0				9	2.9	21
Rubella	0	0	0	0	0	0	0	0	0				0	0.0	0
Smallpox	0	0	0	0	0	0	0	0	0				0	0.0	0
Tetanus	0	0	0	0	0	0	0	0	0				0	0.0	0
Total	13	17	6	2	0	1	1	1	1				42	13.6	-

¹ *Haemophilus influenzae*, meningitis, & other invasive disease² *Neisseria meningitidis*, meningitis and invasive disease

OTHER DISEASES

Two hundred forty-one other diseases were reported in September. This included 235 cases of Coronavirus Novel 2019; 1 case of histoplasmosis; 2 cases of legionellosis; and 3 cases of rabies, human (potential exposure). The annual year-to-date total of all other diseases is 4,303 cases. The annual year-to-date rate of all other diseases is 1,398.0 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for the current year (only other diseases that have had a case reported from January 2015 – present are included in Table 6).

Table 6. Other Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Acute Flaccid Myelitis	0	0	0	0	0	0	0	0	0				0	0.0	0
Botulism: foodborne	0	0	0	0	0	0	0	0	0				0	0.0	0
Coronavirus Novel 2019 ¹	0	3	213	792	810	492	984	706	235				4235	1375.9	-
Cryptosporidiosis	1	0	0	0	1	0	0	1	0				3	1.0	7
Cyclosporiasis	0	0	0	0	0	3	0	1	0				4	1.3	1
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0				0	0.0	0
Hepatitis C	4	4	3	3	1	0	0	1	0				16	5.2	74
Histoplasmosis	0	0	0	0	0	0	0	0	1				1	0.3	1
Legionellosis	0	0	1	1	0	1	0	0	2				5	1.6	3
Listeriosis	0	0	0	0	0	0	1	0	0				1	0.3	0
Malaria	0	0	0	0	0	0	0	0	0				0	0.0	0
Q Fever	0	0	0	0	0	0	0	0	0				0	0.0	0
Rabies, Human (Potential Exposure)	2	0	2	1	2	9	4	11	3				34	11.0	32
Streptococcal Infections, Group A, Invasive Disease	0	0	1	1	0	0	0	0	0				2	0.6	5
Streptococcus Pneumoniae, Invasive Disease ²	0	0	0	0	0	0	0	0	0				0	0.0	1
Toxic Shock Syndrome (due to staph aureus)	0	0	0	0	0	0	0	0	0				0	0.0	0
Tuberculosis	0	0	0	0	0	0	2	0	0				2	0.6	1
Total	7	7	220	798	814	505	991	720	241				4,303	1,398.0	-

¹ Onset date not known for all cases² In children less than 5 years